

Magnetic Resonance Spectroscopy, Imaging and Applications

*NMR, NMRI and ESR: Spectroscopy and Imaging
Applications*

Edited by I.C.Baianu, Ph.D., M.Inst.P.



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This volume is intended as a textbook for advanced physical chemistry and food chemistry classes for graduate students.

The second book edition also has a planned *third volume* with applications to food biotechnology and the latest developments in Fourier Transform NMR, Magnetic Resonance Imaging, FT-NIR, Hyperspectral-Chemical Imaging, Microspectroscopy and Fluorescence Cross-Correlation Spectroscopy, Biotechnology and Cancer.

About the Editor

Ion C. Baianu, Ph.D., M.Inst.P, is a Full Professor of Food Physical Chemistry/Food Chemistry and an Affiliate Professor of Nuclear Engineering at the University of Illinois at Urbana. Since 1985 he has coordinated the research and supporting activities of the first Agricultural and Food Chemistry (AFC) Nuclear Magnetic Resonance (NMR) and Microspectroscopy Facility in the United States. Between 1971 and 2010 he edited and co-edited a total of 57 books, and also contributed 44 chapters in books by other editors. His original publications span a wide range of interests in the fields of: Physical Chemistry, Energy Generation, Fourier Transform NMR, Magnetic Resonance Imaging, FT-NIR, Hyperspectral Imaging, Microspectroscopy and Fluorescence Correlation Spectroscopy, Photosynthesis/Photovoltaics, Biotechnology and Cancer, X-Ray Diffraction, Plasma Physics, Non-crystalline Solids, Mathematical Biophysics, Quantum Computers, Quantum Algebraic Topology, and the Theory of Categories, Functors and Natural Transformations.

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